

## CLAIMS

*What Is Claimed Is:*

1. A server in a first network compliant with a protocol,  
5 the server comprising:  
a first information processing equipment including a  
representative function and an interface having an  
address indicating a group of interfaces;  
a second information processing equipment without the  
10 representative function, wherein the first  
information processing equipment further includes a  
collecting device configured to collect attribute  
and load information from the second information  
processing equipment, wherein the second information  
15 processing equipment includes a storing device  
configured to store information corresponding to an  
address acquired by terminal equipment in a second  
network compliant with the protocol and to an  
address assigned to terminal equipment in the first  
20 network, wherein the first information processing  
equipment further includes a listing device  
configured to generate list information from the  
attribute and load information collected from the  
second information processing equipment and a  
25 sending device configured to send the list  
information the terminal equipment when the server  
receives a message addressed to the address  
indicating the group of interfaces.

2. The server of Claim 1, wherein the protocol is an IPv6 protocol and the server is a Mobile IPv6 Home Agent.

5 3. The server of Claim 2, wherein the address indicating the group of interfaces is a Mobile IPv6 Home-Agents Anycast Address, the message addressed to the address indicating the group of interfaces is a Home Agent Address Discovery Request message, and the attribute information collected  
10 from the second information processing equipment by the first information processing equipment is Home Agent related information.

4. The server of Claim 1, wherein the first information  
15 processing equipment further includes:  
a storing device configured to store a set of entries  
including a source address of a message addressed to  
the address indicating the group of interfaces and  
list information sent to the source address; and  
20 a referring device configured to refer to the set of  
entries when the first information processing  
equipment receives a message addressed to the  
address indicating the group of interfaces, wherein  
when the source address of the message addressed to  
25 the address indicating the group of interfaces  
exists in a storage area storing the set of entries,  
the first information processing equipment is

further configured to read the list information from the storage area and to send the list information to a sender of the message.

- 5 5. The server of Claim 1, wherein the first information processing first equipment further includes:
- a retrieving device configured to get address corresponding information from the information processing second equipment;
- 10 a storing device configured to store a set of entries including the address corresponding information and the address of the second information processing equipment; and
- a referring device configured refer to the set of entries
- 15 when the information processing first equipment receives a message addressed to the address indicating the group of interfaces, wherein when the source address of the message addressed to the address indicating the group of interfaces exists in
- 20 a storage area storing the set of entries, the information processing first equipment is further configured to read the information for the second information processing equipment from the storage area and to send the information for the second
- 25 information processing equipment to the sender of the message.

6. The server of Claim 1, wherein the server accommodates at least one home network as a mobile communication network, and the first information processing equipment further includes a representative function for the at least one home network.

7. The server of Claim 1, wherein the server is configured to accommodate at least one home network as a mobile communication network, wherein each home network is provided with the first information processing equipment and the second information processing second equipment.

8. The server of Claim 1, further comprising another first information processing equipment configured like the first information processing equipment, wherein the first information processing equipment is configured to copy information stored in the first information processing equipment to the other first information processing equipment.

9. A method for mobile communication for a server in a first network compliant with a protocol, wherein the server includes a first information processing equipment with a function and a second information processing equipment without the function, wherein the first information processing equipment includes an interface having an

address indicating a group of interfaces, the method comprising:

collecting attribute and load information from the second information processing equipment;

5 storing information corresponding to an address acquired by terminal equipment in a second network compliant with the protocol and to an address assigned to terminal equipment in the first network;

generating list information from the attribute and load  
10 information collected from the second information processing equipment;

receiving a message addressed to the address indicating the group of interfaces; and  
sending the list information.

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10. The method of Claim 9, wherein the protocol is an IPv6 protocol and the server apparatus is a Mobile IPv6 Home Agent.

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11. The method of Claim 10, wherein the address indicating the group of interfaces is a Mobile IPv6 Home-Agents Anycast Address, the message addressed to the address indicating the group of interfaces is a Home Agent Address Discovery Request message, and the attribute  
25 information collected from the information processing second equipment by the information processing first equipment is Home Agent related information.

12. The method of Claim 9, further comprising:

storing a set of entries including a source address of a  
message addressed to the address indicating the  
group of interfaces and list information sent to the  
source address; and

referring to the set of entries when the first  
information processing equipment receives a message  
addressed to the address indicating the group of  
interfaces;

when the source address of the message addressed to the  
address indicating the group of interfaces exists in  
a storage area storing the set of entries, reading  
the list information from the storage area and  
sending the list information to a sender of the  
message.

13. The method of Claim 9, further comprising:

getting address corresponding information from the  
information processing second equipment;

storing a set of entries including the address  
corresponding information and the address of the  
second information processing equipment; and

referring to the set of entries when the information  
processing first equipment receives a message  
addressed to the address indicating the group of  
interfaces;

when the source address of the message addressed to the address indicating the group of interfaces exists in a storage area storing the set of entries, reading the information for the second information processing equipment from the storage area and sending the information for the second information processing equipment to the sender of the message.

14. A computer-readable medium carrying one or more sequences of one or more instructions for mobile communication for a server in a first network compliant with a protocol, wherein the server includes a first information processing equipment with a function and a second information processing equipment without the function, wherein the first information processing equipment includes an interface having an address indicating a group of interfaces, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:
- collecting attribute and load information from the second information processing equipment;
  - storing information corresponding to an address acquired by terminal equipment in a second network compliant with the protocol and to an address assigned to terminal equipment in the first network;

generating list information from the attribute and load  
information collected from the second information  
processing equipment;

receiving a message addressed to the address indicating  
5 the group of interfaces; and  
sending the list information.